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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/649,921	08/27/2003	Tran M. Nguyen	194-29741-US	6081
24923 PAUL S MADA	7590 03/13/200 AN	8(EXAMINER	
MADAN, MOSSMAN & SRIRAM, PC			DOUGLAS, JOHN CHRISTOPHER	
HOUSTON, TX	'A DRIVE, SUITE 700 K 77057-5662		ART UNIT	PAPER NUMBER
,			1797	
			MAIL DATE	DELIVERY MODE
			03/13/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	10/649,921	NGUYEN ET AL.	
Office Action Summary	Examiner	Art Unit	
	JOHN C. DOUGLAS	1797	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet wi	th the correspondence address	
A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory per - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	E DATE OF THIS COMMUNIC R 1.136(a). In no event, however, may a r riod will apply and will expire SIX (6) MON atute, cause the application to become AB	CATION. Poply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on 1/2 This action is FINAL . 2b) ☑ T Since this application is in condition for allow closed in accordance with the practice under	his action is non-final. wance except for formal matt	-	
Disposition of Claims			
4) Claim(s) 1-9,11-14,16-27,29 and 31-33 is/a 4a) Of the above claim(s) is/are witho 5) Claim(s) 1-9,11 and 21-27 is/are allowed. 6) Claim(s) 12-14,16-18,20,29 and 32 is/are re 7) Claim(s) 19, 31 and 33 is/are objected to. 8) Claim(s) are subject to restriction an Application Papers 9) The specification is objected to by the Exam 10) The drawing(s) filed on is/are: a) are sident and are subjected to by the Exam	drawn from consideration. ejected. d/or election requirement. niner.	by the Examiner.	
Applicant may not request that any objection to the Replacement drawing sheet(s) including the cortain The oath or declaration is objected to by the	the drawing(s) be held in abeyan rection is required if the drawing	ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) ☐ Acknowledgment is made of a claim for fore a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority document of the priori	ents have been received. ents have been received in A priority documents have been reau (PCT Rule 17.2(a)).	oplication No received in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(s	ummary (PTO-413))/Mail Date formal Patent Application ·	

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 1/08/2008 has been entered.

Response to Amendment

Examiner acknowledges the submission filed on 1/08/2008 containing remarks and amendments to the claims. The rejection is maintained in part:

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* **v.** *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

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1. Determining the scope and contents of the prior art.

- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

- 1. Claims 12-14, 16-18, 20, 29, and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Crump (US 5389594).
- 2. With respect to claims 12-14, 16-18, 29, and 32, Crump discloses chelants used in oil drilling that comprise one of citric acid, glyceric acid, gluconic acid, or glycollic acid, such chelants being useful in water. The oil/chelant mixture further comprises sulfuric acid to reduce the pH of the mixture to about 4.2. The amount of chelant in the wash water is about 0.01 to about 40 weight percent and corrosion inhibitors are included in the composition. See Crump, column1, lines 16-27, column 11, lines 57-65, column 13, lines 22-29 and 57-64, column 14, lines 1-14, column 16, and lines 27-50.
- 3. With respect to claim 20, Crump does not disclose that the composition of the treated crude oil contains more than 10 ppm iron or calcium. However, it would have

been obvious to one having ordinary skill in the art at the time of the invention to adjust the contact time, the amount of chelant added and to choose a crude oil feed having a high metals content in order to achieve a desired amount of metal content in the crude oil product.

Response to Arguments

Applicant's first argument is that Crump only very generally discloses the prior art chelants and that they may be useful in a long list of applications. Therefore, Applicant argues that the Crump reference does not teach that the chelants of the invention are used in the art of refinery desalters. However, Crump discloses that chelants in general and the chelants of the invention of Crump are useful in oil field operations (see Crump, column 1, lines 16-27 and column 5, lines 40-59) and are thus, useful in treating crude oil. Therefore, it would be obvious to use the chelants of citric acid, glyceric acid, gluconic acid, or glycollic acid in oil field operations, because Crump teaches that chelants are useful the treatment of crude oil.

Also, in response to applicant's argument that that the chelants of Crump are not disclosed as useful in refinery desalting processes, a recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim.

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Allowable Subject Matter

4. Claims 1-9, 11, 21-27 are allowed.

5. Claims 19, 31 and 33 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

6. The following is a statement of reasons for the indication of allowable subject matter: the prior art also does not teach a method of transferring metals and/or amines from crude oil to a water phase in a refinery desalting process comprising adding the claimed composition for transferring metals/amines to water, lowering the pH of the water to 6 or below, and adding the water to the crude oil to create an emulsion. The prior art also does not teach the claimed composition comprising the claimed composition for transferring metals/amines, a mineral acid, and a demulsifier in a wash water mixture having a pH of 6 or less.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JOHN C. DOUGLAS whose telephone number is (571)272-1087. The examiner can normally be reached on 7:30 A.M. to 4:30 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn A. Caldarola can be reached on 571-272-1444. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JCD

/Glenn A Caldarola/ Acting SPE of Art Unit 1797

3/3/2008